Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

11/1	15/07 Substitute for form 1449/PTO			Complete if Known		
614 E 4	4			Application Number	10/592,994	
-	NFORMATIO	ע וי	SCI OSLIDE	Filing Date	March 23, 2007	
NON 1 8 500	TATEMENT			First Named Inventor	Willem Ferdinand Nieuwenhuizen	
, ,	<b>3</b> ./		APPLICANT	Art Unit	1614	
ARON & TRADE	(Use as many st	eets a	s necessary)	Examiner Name	To be assigned	
TRADE	eet 1	of	5	Attorney Docket Number	VER-209XX	

U. S. PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
		us- 5,232,837	08/03/1993	Merrill, Jr. et al.					
		us- 5,374,616	12/20/1994	Spiegel et al.					
		us- 5,478,860	12/26/1995	Wheeler et al.					
		us- 5,519,007	05/21/1996	Della Valle et al.					
		us- 5,830,853	11/03/1998	Baeckstroem et al.					
		us- 6,562,606	05/13/2003	Elias et al.					
		us- 6,610,835	08/26/2003	Liotta et al.					
		us- 2001/011,076	08/02/2001	Schwartz et al.					
		us- 2002/110,587	08/15/2002	Hope et al.					
		us- 2002/182,250	12/05/2002	Hori et al.					
		us- 2003/049,286	03/13/2003	Granger et al.					
		us- 2003/109,044	06/12/2003	Logan et al.					
		us- 2004/047,851	03/11/2004	Tabas et al.					
		us- 2004/063,667	04/01/2004	Kishikawa et al.					
		us- 2004/147,615	07/29/2004	Rinehart et al.					
		us- 2004/171,557	09/02/2004	lian et al.					
-		us- 2007/098,808	05/03/2007	Sampalis					

	FOREIGN PATENT DOCUMENTS								
Examiner Cite No.1		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant	T <sup>6</sup>			
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known')	MM-DD-YYYY		Passages Or Relevant Figures Appear				
		DE 196 02 108	07/24/1997	Beiersdorf AG abs	tract onl	Åøstract			
		EP 0 373 038	06/13/1990	FIDIA S.p.A.					
		EP 1 291 340	03/12/2003	Charmzone Co., Ltd.					
		EP 1 452 181	09/01/2004	Enzo Therapeutics, Inc.					
			04/23/1082		000000000000000000000000000000000000000	000000000000000000000000000000000000000			

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

1	I 1/15/07 Substitute for form 1449/PTO			Complete if Known		
				Application Number	10/592,994	
	INFORMATIO	N D	ISCI OSLIRE	Filing Date	March 23, 2007	
	STATEMENT			First Named Inventor	Willem Ferdinand Nieuwenhuizen	
	STATEMENT	DI.	APPLICANT	Art Unit	1614	
	(Use as many sheets as necessary)			Examiner Name	To be assigned	
Sheet	2	of	5	Attorney Docket Number	VER-209XX	

not in English

	· · · · · · · · · · · · · · · · · · ·			HOC TH	Eugh-	٠.
	FR-2-820-037-A	<del> 08/02/2002</del>	Dormoconcopt JMG	***************************************		-
	JP 11 269074	10/05/1999	Snow Brand Milk Prod. Co. Ltd.		Abstract	
	JP 61 152632	07/11/1986	Dai Ichi Seiyaku Co. Ltd.		Abstract	ŀ
	JP 63 044842 A	02/25/1998	KAO Corp.		Abstract	
	JP 2000/350563	12/19/2000	Snow Brand Milk Prod. Co. Ltd.		Whole Document	
	JP 2001/158735	06/12/2001	Snow Brand Milk Prod. Co. Ltd.		Whole Document	
	JP 2001/158736	06/12/2001	Snow Brand Milk Prod. Co. Ltd.		Whole Document	
	JP 2002/226394	08/14/2002	Meiji Milk Prod. Co. Ltd.		Abstract	
	JP 2002/068998	03/08/2002	Meiji Milk Prod. Co. Ltd.		Abstract	l
	JP 2003 137894	05/14/2003	Nat. Inst. Of Adv. Ind. & Technol.; Maruha Corp.		Abstract	
	KR 2001 008 569 A - English Abstract Only	02/05/2001	Kwon Young Guen		Abstract Only	l
	WO 1992/03129	03/05/1992	Duke University			
	WO 1995/32002	11/30/1995	State of Oregon			!
	WO 1997/11706 A	04/03/1997	George University			
	WO 1999/41266 A	08/19/1999	Emory University			
	WO 1999/61581	12/02/1999	Georgetown University Medical Center			
	WO 2000/50574	08/31/2000	Johns Hopkins University			
	WO 2002/34062	05/02/2002	NV Marc Boone			
	WO 2002/102394	12/27/2002	Neptune Technologies & Bioressources Inc.			
:	WO 2003/011873	02/13/2003	Neptune Technologies & Bioresources Inc.			
	WO 2003/088761	10/30/2003	Purpura et al.			
	WO 2004/016257	02/26/2004	Kim et al.			

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

The Penn State

Research Foundation

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

11/15/07 Substitute for form 1449/PTO		Complete if Known						
Substitute for form 1449/PTO		Application Num	ber	10/592,994				
	INIE		חו	ISCLOSURE	Filing Date First Named Inventor		March 23, 2007	
							Willem Ferdinand Nieuwenhuizen	
STATEMENT BY APPLICANT					Art Unit		1614	
(Use as many sheets as necessary)		Examiner Name		To be assigned				
Sheet	3		of	5	Attorney Docket Number		VER-209XX	
		<del></del>			•			
		WO 2004/064	1819	)	08/05/2004	Voor T wetens	andse Organisatie oegepastnatuur- schppelijk zoek TNO	
		WO 2004/064	1820	)	08/05/2004	Nederlandse Organisatie Voor Toegepastnatuur- wetenschppelijk Onderzoek TNO		
		WO 2004/064	1823	}	08/05/2004	Astor	n University	

11/11/2004

		NON PATENT LITERATURE DOG	CUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title the item (book, magazine, journal, serial, symposium, canumber(s), publisher, city and/or cour	talog, etc.), date, pag		T²		
		Auge, Nathalie et al.: "Sphingomyelin metabolites atherogensis" PROGRESS IN LIPID RESEARCH 05), pages 207-229.					
	Beers, M.H. and R. Berkow: "The Merck Manual of Diagnosis and Therapy, seventeenth edition" 1999, MERCK RESEARCH LABORATORIES, WHITEHOUSE STATION, N.J., XP002311213 page 1655, column 1, paragraph 4 - page 1656, column 1, paragraph 3.						
	Beers, M.H. and R. Berkow: "The Merck Manual of Diagnosis and Therapy, seventeenth edition" 1999, MERCK RESEARCH LABORATORIES, WHITEHOUSE STATION, N.J., XP002341450 page 1062; tables 148-4.						
		Bibel, D. J. et al.: "ANTIMICROBIAL ACTIVITY OF INVESTIGATIVE DERMATOLOGY, vol. 98,					
	Bischoff, A. et al.: "Sphingosine-1-Phosphate and sphingosylphosphorylcholine constrict renal and mesenteric microvessels in vitro" BRITISH JOURNAL OF PHARMACOLOGY, BASINGSTOKE, HANTS, GB, vol. 130, no. 8, August 2000 (2000-08), pages 1871-1877.						
	Chatterjee, Subroto: "Sphingolipids in atherosclerosis and vascular biology" ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY, vol. 18, no. 10, October 1998 (1998-10), pages 1523-1533.						
Examiner Signature			Date Considered				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

WO 2004/096140

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

11/15/07 Substitute for form 1449/PTO				Complete if Known		
				Application Number	10/592,994	
	INFORMATIO	N D	ISCLOSURE	Filing Date	March 23, 2007	
	STATEMENT			First Named Inventor	Willem Ferdinand Nieuwenhuizen	
	STATEMENT	DI.	APPLICANT	Art Unit	1614	
(Use as many sheets as necessary)			s necessary)	Examiner Name	To be assigned	
Sheet	4 .	of	5	Attorney Docket Number	VER-209XX	

	Chong, P.H. et al.: "Atorvastatin calcium: an addition to HMG-CoA reductase inhibitors." Pharmacotherapy, vol. 17(6), pages 1157-1177; 1997.					
	Chung, N. et al.: "Phytosphingosine as a specific inhibitor of growth and nutrient import in Saccharomyces cerevisiae." THE JOURNAL OF BIOLOGICAL CHEMISTRY. UNITED STATES 21 SEP 2001, vol. 276, no. 38, 21 September 2001 (2001-09-21), pages 35614-35621.					
	Davaille et al. 2000. J. Biol. Chem., vol. 275, no. 44, pages 34628-34633.					
	Fantini, J. et al.: "Synthetic Soluble Analogs of Galactosylceramide (GalCer) Bind to the V3 Domain of HIV-1 gp120 and Inhibit HIV-1-induced Fusion and Entry".  JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 11, 1997, pages 7245-7252.					
	Howell et al. 2002. Current Organic Chemistry, vol. 6, no. 4, 2002, pages 365-391.					
	Jiang, Xian-Cheng et al.: "Plasma sphingomyelin level as a risk factor for coronary artery disease" ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY, vol. 20, no. 12, December 2000 (2000-12), pages 2614-2618.					
	Jung et al. 1996. Journal of Natural Products, vol. 59, no. 3, pages 319-322.					
	Kim, et al. 2000. Phytotherapy Res., 14(6), 448-451.					
·	Leventhal, A. R. et al.: "Acid sphingomyelinase-deficient macrophages have defective cholesterol trafficking and efflux." THE JOURNAL OF BIOLOGICAL CHEMISTRY. 30 NOV 2001, vol. 276, no. 48, 30 November 2001 (2001-11-30), pages 44976-44983.					
	Merrill Jr., A. H. et al.: "Role of dietary sphingolipids and inhibitors of sphingolipid metabolism in cancer and other diseases" JOURNAL OF NUTRITION 1995 UNITED STATES, vol. 125, no. 6 SUPPL., 1995, pages 1677S-1682S.					
	Ortenberg et al: Farmakologiya i Toksikologiya (Moscow), vol. 47, no. 4, 1984, pages 102-105.					
	Rueda, R. et al.: "Addition of gangliosides to an adapted milk formula modifies levels of fecal Escherichia coli in preterm newborn infants" J. PEDIATR., vol. 133, 1998, pages 90-94.					
Schmelz, E. M. et al.: "Sphingomyelin consumption suppresses aberrant colonic crypt foci and increases the proportion of adenomas versus adenocarcinomas in cf1 mice treated with 1,2-dimethylhydrazine: implications for dietary sphingolipid						
Examiner	Date					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Considered

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	1 1/15/07 Substitute for form 1449/PTO			Complete if Known		
				Application Number	10/592,994	
	INFORMATIO	N D	ISCI OSLIRE	Filing Date	March 23, 2007	
	STATEMENT			First Named Inventor	Willem Ferdinand Nieuwenhuizen	
	STATEMENT	DI.	APPLICANT	Art Unit	1614	
	(Use as many sheets as necessary)			Examiner Name	To be assigned	
Sheet	5	of	5	Attorney Docket Number	VER-209XX	

and colon carcinogenesis" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 56, no. 21, 1 November
1996 (1996-11-01), pages 4936-4941.  Sosnowski et al. 1997. Journal of Urology, vol. 158, no. 1, pages 269-274.
Sprong, R.C. et al.: "Bovine milk fat components inhibit food-borne pathogens." International Dairy Journal, vol. 12, pages 209-215, 2002.
Thurman et al. 1994. Transplant Int.: Off. J. Eur. Soc. For Organ Transplantation. 1994, vol. 7 suppl 1, 1994, pages s167-s170.
Vesper, H. et al.: "Sphingolipids in Food and the Emerging Importance of Sphingolipids to Nutrition" JOURNAL OF NUTRITION, vol. 129, 1999, pages 1239-1250.
Viola, G. et al.: "Absorption and distribution of arachidonate in rats receiving lysophospholipids by oral route" JOURNAL OF LIPID RESEARCH, BETHESDA, MD, US, vol. 34, no. 11, 1993, pages 1843-1852.
Yamada, T. et al.: "Growth inhibition of pancreatic cancer cells by sphingosylphosphorylcholine and influence of culture conditions" CMLS, Cell. mol. life. sci. vol. 53, pages 435-441, 1997.
Zheng et al. 2002. Hepatology, vol. 36, no. 4 part 2, page 215a. Abstract no. 196.

Examiner	/Timothy Thomas/	Date	00/02/2009
Signature	/ finotity frioritas/	Considered	09/03/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English Janguage Translation is attached.

mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.